AUTHOR INDEX

Ai, X.-O., 15, *201*
Allen, C., 265, 279
Anderson, A. E., 319, *441*
Attia, M. H., 423, *441*

Becker, S., 171
Bergmann, E., 1, *201*
Bhattacharyya, S. K., 147, *201*
Bosch, J. P., 1, *201*
Breakell, J. E., 117

Chattopadhyay, A. K., 41
Chen, G., 227, *441*
Chen, Q. D., 391, *441*
Chen, Y., 391, *441*
Chung, D. D. L., 53, *202*
Clayton, P., 355, 369, *441*
Czichos, H., 171

Danks, D., 369, *441*
Deng, H.-J., 217, *441*
Devanathan, R., 355, *441*

El-Gamal, H. A., 135, *202*
Ezugwu, E. O., 147, *202*

Farges, G., 1, *202*
Fordyce, E. P., 265
Friedrich, K., 207, *442*

Gondal, A. K., 67, *202*
Goretta, K. C., 161, *202*
Grobler, P. E., 339, *442*
Groppi, D. P., 161, *202*
Grütter, P., 109, *203*
Güntherodt, H.-J., 109, *203*

Heinzelmann, H., 109, *203*
Hidber, H.-R., 109, *203*
Hiratsuka, K., 251, *442*
Hokkirigawa, K., 237, *442*
Hu, Y.-Z., 15
Hug, H., 109, *203*
Hutchings, I. M., 293, *442*

Inoue, H., 237, *442*

Jacobs, O., 207, *442*
Jawaid, A., 147, *203*
Jiao, G., 227, *442*
Joffe, S. H. D., 279
Jung, T., 109, *203*

Karasek, K. R., 161, *203*
Kato, K., 237
Kitsunai, H., 237
Knapp, R. A., 319, *443*
Koc, E., 29, 79, *203*
Kumar, D., 67, *204*

Lexow, J., 171, *204*
Li, J., 293, *443*

MacAdam, S., 403, *443*
Marom, G., 207, *443*
Mathias, P. J., 161, *204*
Meyer, E., 109, *204*
Mostert, R. J., 339, *443*

Nagaraj, A. P., 41, *204*
Nautiyal, P. C., 67, *204*

Rao, U. R. K., 197
Routbort, J. L., 161, *204*

Saito, H., 251, *443*
Sasada, T., 251, *443*
Scandella, L., 109, *205*
Schmidt, C., 109
Scholl, M., 355, *443*
Schulte, K., 207, *444*
Shen, T.-Y., 217, *444*
Stone, R. A., 193, *205*
Stott, F. H., 117, *205*
Stringer, J., 403, *444*
Su, J. Y., 391, *444*
Sundararajan, G., 95, *205*

Tong, J.-M., 217, *444*
Tylczak, J. H., 305, *444*

Venkataraman, B., 95, *205*

Wagner, H. D., 207, *444*
Wang, Y., 227
Wu, W., 161, *203*

Yang, J.-Y., 53, *205*

Zheng, L.-Q., 15, *205*
Zhou, Y.-Z., 217, *444*

© Elsevier Sequoia/Printed in The Netherlands

SUBJECT INDEX

Abrasion
  experience in the laboratory and commercial development of abrasion–corrosion resistant steels for the mining industry, 339
Abrasive wear
  abrasive and dry sliding wear resistance of Fe–Mo–Ni–Si and Fe–Mo–Ni–Si–C weld hardfacing alloys, 355
  influence of retained austenite in high chromium cast iron on impact–abrasive wear, 217
  study of the abrasive wear of pure metals using a pin-on-drum apparatus, 305
Adhesion wear
  friction and adhesive wear behaviour of W–C coatings against steel and titanium nitride, 1
Adsorption
  adsorption of surrounding gas molecules on pure metal surfaces during wear processes, 251
Alloys
  abrasive and dry sliding wear resistance of Fe–Mo–Ni–Si and Fe–Mo–Ni–Si–C weld hardfacing alloys, 355
  wear of bauxite-particle-reinforced aluminum alloys, 53
Aluminium
  wear of bauxite-particle-reinforced aluminum alloys, 53
Atomic force microscopy
  topography and correlation to wear of hydrogenated amorphous carbon coatings: an atomic force microscopy study, 109
Austempering
  dry sliding wear behaviour of an austempered spheroidal cast iron, 265
Austenite
  influence of retained austenite in high chromium cast iron on impact–abrasive wear, 217
Bauxite
  wear of bauxite-particle-reinforced aluminum alloys, 53
Bearings
  surface non-flatness effect on the design of bush-type bearings in high pressure pumps and motors, 29
Carbon
  abrasive and dry sliding wear resistance of Fe–Mo–Ni–Si and Fe–Mo–Ni–Si–C weld hardfacing alloys, 355
  fretting wear performance of glass-, carbon-, and Armid-fibre/epoxy and PEEK composites, 207
  friction and adhesive wear behaviour of W–C coatings against steel and titanium nitride, 1
  topography and correlation to wear of hydrogenated amorphous carbon coatings: an atomic force microscopy study, 109
Ceramics
  international multilaboratory sliding wear tests with ceramics and steel, 171
  performance of ceramic tool materials for the machining of cast iron, 147
Chromium
  influence of retained austenite in high chromium cast iron on impact–abrasive wear, 217
  prolonging the service life of shot-blaster blades made from high chromium cast iron, 391
Coatings
  topography and correlation to wear of hydrogenated amorphous carbon coatings: an atomic force microscopy study, 109
Composites
  fretting wear performance of glass-, carbon-, and Armid-fibre/epoxy and PEEK composites, 207

© Elsevier Sequoia/Printed in The Netherlands

solid particle erosion of a graphite-fiber-reinforced bismaleimide polymer composite, 161
Compression ignition engines
wear and lubrication characteristics of a methanol-fuelled compression ignition engine — a comparison with pure diesel and bifuel operation, 67
Copper
solid particle erosion of copper at very low impact velocities, 95
Corrosion
experience in the laboratory and commercial development of abrasion–corrosion resistant steels for the mining industry, 339
influence of corrosion on the wear of cast iron in sulphuric acid solutions, 117

Diesel
wear and lubrication characteristics of a methanol-fuelled compression ignition engine — a comparison with pure diesel and bifuel operation, 67

Elastohydrodynamic contacts
numerical solution for transient elastohydrodynamic contacts with an Eyring fluid, 15
Elastomers
resistance of cast polyurethane elastomers to solid particle erosion, 293
Erosion
resistance of cast polyurethane elastomers to solid particle erosion, 293
solid particle erosion of a graphite-fiber-reinforced bismaleimide polymer composite, 161
solid particle erosion of copper at very low impact velocities, 95
Eutectoid steels
effect of interlamellar spacing on the wear resistance of eutectoid steels under rolling–sliding conditions, 369
Eyring fluids
numerical solution for transient elastohydrodynamic contacts with an Eyring fluid, 15

Fine particles
wear of pump valves in fine particle quartzite slurries, 279
Fluidized beds
development of a unique laboratory scale fluidized bed wear testing unit, 403
Fretting
fretting wear performance of glass-, carbon-, and Armid-fibre/epoxy and PEEK composites, 207
thermally controlled fretting wear tribometer — a step towards standardization of test equipment and methods, 423
Friction
friction and adhesive wear behaviour of W–C coatings against steel and titanium nitride, 1
hot spotting in automotive friction systems, 319
transitions between microscopic wear modes during repeated sliding friction observed by a scanning electron microscope tribosystem, 237

Gear ends
analytical and experimental investigation into the sealing and lubrication mechanisms of the gear ends in pumps, 79
Graphite
solid particle erosion of a graphite-fiber-reinforced bismaleimide polymer composite, 161
Grinding
dangers in modelling grinding wheel life data by the group method of data handling, 193
reply to "Dangers in modelling grinding wheel life data by the group method of data handling", 197

Hot spotting
hot spotting in automotive friction systems, 319
Hydrogen
topography and correlation to wear of hydrogenated amorphous carbon coatings: an atomic force microscopy study, 109

Impact–abrasive wear
influence of retained austenite in high chromium cast iron on impact–abrasive wear, 217

Interlamellar spacing
effect of interlamellar spacing on the wear resistance of eutectoid steels under rolling–sliding conditions, 369
Iron
abrasive and dry sliding wear resistance of Fe–Mo–Ni–Si and Fe–Mo–Ni–Si–C weld hardfacing alloys, 355
dry sliding wear behaviour of an austempered spheroidal cast iron, 265
influence of corrosion on the wear of cast iron in sulphuric acid solutions, 117
influence of retained austenite in high chromium cast iron on impact–abrasive wear, 217
performance of ceramic tool materials for the machining of cast iron, 147
prolonging the service life of shot-blaster blades made from high chromium cast iron, 391

Life data
dangers in modelling grinding wheel life data by the group method of data handling, 193
reply to "Dangers in modelling grinding wheel life data by the group method of data handling", 197
Lubrication
analytical and experimental investigation into the sealing and lubrication mechanisms of the gear ends in pumps, 79
wear and lubrication characteristics of a methanol-fuelled compression ignition engine — a comparison with pure diesel and bifuel operation, 67
wear prediction for unlubricated piston rings, 227

Metals
adsorption of surrounding gas molecules on pure metal surfaces during wear processes, 251
study of the abrasive wear of pure metals using a pin-on-drum apparatus, 305
Methanol
wear and lubrication characteristics of a methanol-fuelled compression ignition engine — a comparison with pure diesel and bifuel operation, 67
Molybdenum
abrasive and dry sliding wear resistance of Fe–Mo–Ni–Si and Fe–Mo–Ni–Si–C weld hardfacing alloys, 355

Nickel
abrasive and dry sliding wear resistance of Fe–Mo–Ni–Si and Fe–Mo–Ni–Si–C weld hardfacing alloys, 355

Piston rings
wear prediction for unlubricated piston rings, 227
Polyetheretherketone
fretting wear performance of glass-, carbon-, and Armid-fibre/epoxy and PEEK composites, 207
Polymers
solid particle erosion of a graphite-fiber-reinforced bismaleimide polymer composite, 161
Polyurethane
resistance of cast polyurethane elastomers to solid particle erosion, 293

Quartzite
wear of pump valves in fine particle quartzite slurries, 279

Reinforcement
fretting wear performance of glass-, carbon-, and Armid-fibre/epoxy and PEEK composites, 207
wear of bauxite-particle-reinforced aluminum alloys, 53
Rolling
effect of interlamellar spacing on the wear resistance of eutectoid steels under rolling–sliding conditions, 369

Scanning electron microscopy
transitions between microscopic wear modes during repeated sliding friction observed by a scanning electron microscope tribosystem, 237
Sealing
analytical and experimental investigation into the sealing and lubrication mechanisms of the gear ends in pumps, 79

Silicon
abrasive and dry sliding wear resistance of Fe–Mo–Ni–Si and Fe–Mo–Ni–Si–C weld hardfacing alloys, 355
Sliding
effect of interlamellar spacing on the wear resistance of eutectoid steels under rolling–sliding conditions, 369
Sliding friction
transitions between microscopic wear modes during repeated sliding friction observed by a scanning electron microscope tribosystem, 237
Sliding wear
abrasive and dry sliding wear resistance of Fe–Mo–Ni–Si and Fe–Mo–Ni–Si–C weld hardfacing alloys, 355
dry sliding wear behaviour of an austempered spheroidal cast iron, 265
international multilaboratory sliding wear tests with ceramics and steel, 171
Slurries
wear of pump valves in fine particle quartzite slurries, 279
Steady lubrication
steady streaming lubrication equation, 135
Steels
experience in the laboratory and commercial development of abrasion–corrosion resistant steels for the mining industry, 339
friction and adhesive wear behaviour of W–C coatings against steel and titanium nitride, 1
Sulphur
influence of corrosion on the wear of cast iron in sulphuric acid solutions, 117
Surfaces
adsorption of surrounding gas molecules on pure metal surfaces during wear processes, 251

Titanium
friction and adhesive wear behaviour of W–C coatings against steel and titanium nitride, 1
Tribometers
thermally controlled fretting wear tribometer — a step towards standardization of test equipment and methods, 423
Tungsten
friction and adhesive wear behaviour of W–C coatings against steel and titanium nitride, 1

Wear
abrasive and dry sliding wear resistance of Fe–Mo–Ni–Si and Fe–Mo–Ni–Si–C weld hardfacing alloys, 355
adsorption of surrounding gas molecules on pure metal surfaces during wear processes, 251
development of a unique laboratory scale fluidized bed wear testing unit, 403
dry sliding wear behaviour of an austempered spheroidal cast iron, 265
effect of interlamellar spacing on the wear resistance of eutectoid steels under rolling–sliding conditions, 369
fretting wear performance of glass-, carbon-, and Armid-fibre/epoxy and PEEK composites, 207
influence of corrosion on the wear of cast iron in sulphuric acid solutions, 117
influence of retained austenite in high chromium cast iron on impact–abrasive wear, 217
international multilaboratory sliding wear tests with ceramics and steel, 171
study of the abrasive wear of pure metals using a pin-on-drum apparatus, 305
thermally controlled fretting wear tribometer — a step towards standardization of test equipment and methods, 423
topography and correlation to wear of hydrogenated amorphous carbon coatings: an atomic force microscopy study, 109
transitions between microscopic wear modes during repeated sliding friction observed by a scanning electron microscope tribosystem, 237
wear and lubrication characteristics of a methanol-fuelled compression ignition engine — a comparison

with pure diesel and bifuel operation, 67
wear of bauxite-particle-reinforced aluminum alloys, 53
wear prediction for unlubricated piston rings, 227
wear of pump valves in fine particle quartzite slurries, 279
Wear prediction
wear prediction for unlubricated piston rings, 227
Welding
abrasive and dry sliding wear resistance of Fe–Mo–Ni–Si and Fe–Mo–Ni–Si–C weld hardfacing allys, 355
Wheel loading
some aspects of wheel loading, 41